

Claims

1. An electrochemical gas sensor comprising:
 - a working electrode for exposure to a gas to be sensed;
 - a counter electrode having an outer periphery;
 - a reservoir for electrolyte;
 - wick means providing a path for electrolyte to pass from the reservoir, around a first part or parts of the outer periphery of the counter electrode to provide electrolytic continuity between the counter electrode and the working electrode; and
 - a gas diffusion means providing a path for gas to diffuse to or from a second part of the outer periphery of the counter electrode.
2. A sensor according to claim 1, wherein the working electrode and counter electrode are in a layered arrangement, with the working electrode and counter electrode being generally planar in form and stacked upon each other.
3. A sensor according to claim 2, wherein the counter electrode is sandwiched between two layers of generally planar wick portions.
4. A sensor according to claim 3, wherein the layers of wick portions are of larger extent than the counter electrode and are in contact with each other around only the first part or parts of the outer periphery of the counter electrode, with the second part or parts of the counter electrode outer periphery extending beyond the wick portions.
5. A sensor according to claim 3, wherein the working electrode and wick portions are generally circular or disc-like in configuration and coaxially stacked, and the counter electrode is non-circular in configuration.
6. A sensor according to claim 4, wherein the working electrode and wick portions are generally circular or disc-like in configuration and coaxially stacked, and the counter electrode is non-circular in configuration.

7. A sensor according to claim 1, further comprising a reference electrode.
8. A sensor according to claim 1, wherein the working electrode and counter electrode are supported on a material which is impermeable to electrolyte but permeable to gas.
9. A sensor according to claim 8, wherein the electrode support comprises microporous polytetrafluoroethylene.
10. A sensor according to claim 8, wherein the gas diffusion means comprises the support for the working electrode and the support for the counter electrode.
11. A sensor according to claim 10, wherein the support for the working electrode and the support for the counter electrode are in contact with each other.
12. A sensor according to claim 4, wherein the working electrode and the counter electrode are supported on a material which is impermeable to electrolyte but permeable to gas, with the support for the counter electrode adjacent the second part or parts of the outer periphery, extending beyond the wick portions, and contacting the support for the working electrode, the contacting electrode supports comprising the gas diffusion means.
13. An electrochemical gas sensor for measurement of a gaseous analyte, the sensor comprising a planar working electrode and a planar counter electrode with electrolyte therebetween, the working electrode and the counter electrode being in contact with the electrolyte, the sensor further comprising a gas diffusion means through which a reagent gas can diffuse to the counter electrode, the gas diffusion means partially or fully enclosing a volume around the working and counter electrodes and having an electrolyte supply means for supply of electrolyte from a reservoir, the counter electrode having an outer edge characterised in that part of the outer edge of the counter electrode is in contact with the gas diffusion means and part of the outer edge of the counter electrode is not in contact with the gas diffusion means, there being provided electrolyte transport means for

Year	1872	1873	1874	1875	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
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